INTERNATIONAL SEARCH REPORT

Interional Application No PCT/EP2005/050721

A. CLASS IPC 7	SIFICATION OF SUBJECT MATTER H04J3/08 H04L12/46		
According	to International Patent Classification (IPC) or to both national c	lassification and IPC	
<u> </u>	SEARCHED		
IPC 7	locumentation searched (classification system followed by clas H04J H04L		
	ation searched other than minimum documentation to the exten		
EPO-In	data base consulted during the International search (name of d	ata base and, where practical, search	l terms used)
C. DOCUM	ENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of	he relevant passages	Relevant to claim No.
Х	US 6 259 837 B1 (DE BOER EVERT 10 July 2001 (2001-07-10)	ET AL)	1-3,6,8, 15,17,
Υ	abstract figure 4 column 2, line 8 - line 56 column 3, line 8 - line 61		20-23 9,10
A	US 2003/031124 A1 (CHOW TIMOTH 13 February 2003 (2003-02-13) abstract	Y Y ET AL)	1
Υ	EP 0 961 518 A (ALCATEL CANADA 1 December 1999 (1999-12-01) abstract paragraph '0011!	INC)	9
	paragraph 0011.		
ĺ		-/	ł
X Furth	er documents are listed in the continuation of box C.	χ Patent family members	are listed in annex.
° Special cal	egories of cited documents ;	*T* later document published att	ortho Intowndiana) sila a data
E' earlier do	nt defining the general state of the art which is not ared to be of particular relevance coument but published on or after the international	rivermon	ciple or meory underlying the
filing da L' documen'	it which may throw doubts on priority claim(s) or	"X" document of particular relevations cannot be considered novel involve an inventive step with the	or cannot be considered to sen the document is taken alone
citation O' document	s died to establish the publication date of another or other special reason (as specified) nt referring to an oral disclosure, use, exhibition or	"Y" document of particular releva	one or more other such docu-
oruet m	eans It published prior to the International filing date but In the priority date claimed	ments, such combination be in the art. "&" document member of the san	ing obvious to a person skilled
	ctual completion of the international search	Date of mailing of the Interna	
29	April 2005	06/05/2005	
Name and ma	alling address of the ISA European Patent Office, P.B. 5818 Palentiaan 2	Authorized officer	
	NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo ni, Fax: (+31-70) 340-3016	Bernardini, /	4

INTERNATIONAL SEARCH REPORT

Intermonal Application No	
PCT/EP2005/050721	

0.75		PCT/EP2005/050721
	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Υ	US 6 181 677 B1 (VALLI RON ET AL) 30 January 2001 (2001-01-30) abstract column 1, line 64 - column 2, line 42	10
A	US 2003/086368 A1 (LIMAYE PRADEEP SHRIKRISHNA ET AL) 8 May 2003 (2003-05-08) abstract paragraphs '0021!, '0101!, '0104! figure 2	1-23
4	US 2003/012129 A1 (LEE BYOUNG-JOON ET AL) 16 January 2003 (2003-01-16) abstract paragraphs '0007! - '0015! figures 1,9	1-23
4	WO 03/047187 A (MARCONI COMMUNICATIONS SPA; LAZZERI, FRANCESCO; CAVIGLIA, DIEGO; FIASC) 5 June 2003 (2003-06-05) abstract	1–23
	EP 0 221 360 A (INTERNATIONAL BUSINESS MACHINES CORPORATION) 13 May 1987 (1987-05-13) abstract page 3, line 29 - line 48 page 7, line 18 - line 27	

Form PCT/ISA/210 (continuation of second sheet) (January 2004)

INZERNATIONAL SEARCH REPORT

information on patent family members

Intermedia Application No PCT/EP2005/050721

						,	000,000,11
	atent document d in search report		Publication date		Patent family member(s)		Publication date
US	6259837	B1	10-07-2001	CA	2311399	A1	24-12-2000
US	2003031124	A1	13-02-2003	CA	2457099		27-02-2003
	•			EP WO	1417796 03017502		12-05-2004
					03017302		27-02-2003
ΕP	0961518	Α	01-12-1999	CA	2239032		28-11-1999
				EP	0961518		01-12-1999
				US	6697329	 RT	24-02-2004
US	6181677	B1	30-01-2001	NONE			
US	2003086368	A1	08-05-2003	US	2003026281	A1	06-02-2003
				US	2003063617	A1	03-04-2003
US	2003012129	A1	16-01-2003	CA	2392942	A1	10-01-2003
WO	03047187	Α	05-06-2003	IT	MI20012536		30-05-2003
				ΑU	2002351102		10-06-2003
				CA	2466789		05-06-2003
				EP	1451985		01-09-2004
~				MO	03047187	A1	05-06-2003
ЕP	0221360	A	13-05-1987	DE	3687400	D1	11-02-1993
				DE		T2	15-07-1993
				EP	0221360		13-05-1987
				JP	1763603		28-05-1993
				JP	4050780		17-08-1992
	,			JP	62109451	Ą	20-05-1987
				US	4825206	A	25-04-1989